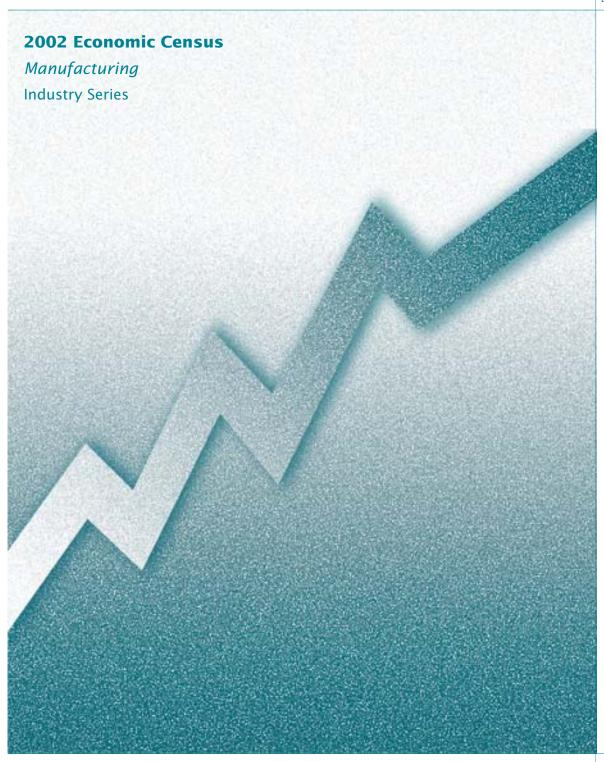
Switchgear and Switchboard Apparatus Manufacturing: 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
335313, Switchgear and switchboard											
apparatus manufacturing2002	446	528	37 181	1 449 603	25 941	51 255	831 540	4 294 460	3 558 284	7 894 237	r191 357
2001	N.	N.	41 851	1 585 762	30 066	58 710		4 666 562		9 112 738	196 791
2000	N	N.	43 878	1 676 859	31 676	62 680	967 632	5 011 724	4 871 335	9 898 617	193 327
1999	N	N	42 929	1 606 796	30 234	62 222	923 677	4 702 693	3 767 724	8 466 374	175 190
1998	N	N	41 859	1 507 992	29 467	61 288	875 641	4 458 253	3 449 230	7 877 174	206 397
1997	496	576	40 358	1 430 985	28 119	57 651	836 400	4 322 599	3 166 941	7 488 911	195 408

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Pr	oduction work	cers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
335313, Switchgear and switchboard apparatus manufacturing												
United States. Alabama . Arizona . California . Connecticut . Florida . Georgia . Illinois . Ilowa . Kentucky . Louisiana	2 3 1 7 - 1 - -	528 9 8 56 9 16 20 41 6	220 2 3 24 5 6 7 22 3 4	37 181 170 132 2 202 1 140 957 1 154 5 604 1 451 1 568 211	1 449 603 6 676 5 409 79 710 44 984 37 954 40 495 245 268 84 542 63 076 7 232	25 941 111 95 1 403 853 577 872 3 618 1 029 1 090 133	51 255 220 192 2 880 1 585 1 192 1 803 7 981 1 947 2 070 269	831 540 2 902 3 167 44 398 22 923 17 056 24 290 125 864 60 082 39 057 4 334	4 294 460 13 039 9 018 212 880 78 316 74 367 125 281 683 083 206 758 304 801 8 568	3 558 284 20 478 13 851 169 323 29 645 116 494 117 882 459 107 259 423 147 276 12 540	7 894 237 33 210 23 236 388 198 107 629 190 049 244 798 1 142 381 470 859 449 574 24 705	r191 357 r1 803 r652 r9 993 r1 574 r1 745 r6 547 r51 135 r10 087 r5 241 r380
Maryland Massachusetts Michigan. Minnesota Mississippi Missouri New Jersey New York North Carolina Ohio	- 2 1 - 6 4 -	5 7 29 16 6 13 16 21 22 43	2 5 8 8 3 5 4 12 10 15	569 745 717 685 428 1 190 533 783 1 726 2 240	16 868 40 839 27 718 26 276 17 693 36 182 25 224 31 380 64 723 83 204	434 319 475 452 269 985 331 516 1 290 1 490	1 693 600 917 886 612 1 862 617 1 018 2 369 2 495	9 354 14 594 13 907 14 895 9 011 27 278 13 507 15 391 41 090 45 889	30 110 117 621 51 151 57 347 65 513 180 409 59 317 65 239 131 635 266 138	23 512 62 579 41 738 64 387 86 593 89 017 29 599 49 531 173 020 160 302	53 774 186 068 90 594 123 087 152 021 269 928 88 124 114 485 308 278 428 663	r370 r3 417 r8 180 r2 074 r1 932 r3 378 r1 027 r5 484 r33 853 r7 372
Oklahoma Oregon Pennsylvania. South Carolina Tennessee Texas Virginia Washington Wisconsin	- 5 - 2 1 1 5 -	8 5 26 10 13 32 8 10 18	3 3 14 6 8 10 2 2	311 192 2 020 2 293 1 143 2 812 228 111 816	10 630 6 806 80 877 86 197 41 135 92 050 8 183 4 456 34 383	200 123 1 313 1 657 946 2 178 158 76 513	395 239 1 903 3 410 1 896 4 391 313 145 1 077	5 451 3 670 36 676 51 311 31 765 60 717 3 723 2 315 17 705	33 015 20 106 237 075 236 600 161 139 347 073 16 895 14 692 108 677	34 361 19 181 246 450 264 334 129 642 283 947 21 525 11 082 75 113	63 889 39 339 496 468 506 698 290 546 630 472 38 702 25 748 188 401	r478 r422 r3 919 r6 254 r3 492 r11 631 r308 r221 r1 222

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.
³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
335313, Switchgear and switchboard apparatus manufacturing	
Companies ¹	446
All establishments ²	528 308 131 89
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	37 181 1 885 932 1 449 603 436 329
Production workers, average for year	25 941 26 269 26 300 25 964 25 149
Production worker hours	51 255 831 540
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	3 558 284 3 096 733 370 691 11 957 40 417 38 486
Quantity of electricity purchased for heat and power 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	681 044 S
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	7 894 237 6 951 521 420 343 522 373 479 391 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	94 7 398 285 6 951 521 446 764
Coverage ratiopercent	94
Value added	4 294 460
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	901 763 200 171 252 216 449 376
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	837 190 182 567 228 327 426 296
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'2 241 630 '191 357 '31 019 '160 338 '3 718 '15 521 '141 099 '103 057 '2 329 930
Depreciation charges during year\$1,000.	^r 148 876
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	55 385 32 057 23 328
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	356 825 76 33 159 9 799 3 859 2 890 6 080 11 283 3 780 16 922 22 384 246 669

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
335313, Switchgear and switchboard apparatus manufacturing											
All establishments	-	528	37 181	1 449 603	25 941	51 255	831 540	4 294 460	3 558 284	7 894 237	r191 357
1 to 4 employees. 5 to 9 employees. 10 to 19 employees. 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees 2,500 employees or more	9 7 3 2 1 1 - -	152 84 72 83 48 46 25 15	328 575 952 2 663 3 582 7 145 8 532 9 582 3 822	11 965 22 427 37 711 106 793 136 840 263 198 331 460 404 488 134 721	248 424 643 1 764 2 270 4 966 5 876 6 861 2 889	433 814 1 265 3 552 4 353 9 832 11 124 13 794 6 088	7 307 13 403 20 610 55 897 66 095 146 693 193 573 248 356 79 606	37 517 66 309 140 007 244 964 426 118 611 014 981 427 1 446 860 340 244	32 343 64 133 103 725 208 019 345 973 631 069 797 597 1 131 692 243 753	70 864 131 121 243 416 450 268 772 600 1 262 764 1 788 142 2 587 417 587 650	'1 049 '1 750 '2 960 '10 290 '15 016 '43 227 '43 183 '43 980 '29 894
Administrative records ⁴	9	219	869	32 916	657	1 231	20 030	89 813	88 611	178 423	^r 2 660

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–11 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

size classes shown.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Production workers				Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
335313	Switchgear and switchboard apparatus manufacturing	528	37 181	1 449 603	25 941	51 255	831 540	4 294 460	3 558 284	7 894 237	r191 357
3353131 3353133	Power circuit breakers, all voltages . Low voltage panelboards and distribution boards and other	26	2 115	91 550	1 417	2 800	49 514	298 638	385 738	685 394	r18 819
3353135	switching and interrupting devices, 1000 volts or less	90	9 051	331 289	6 514	12 549	207 026	1 056 417	1 167 403	2 233 232	r27 895
3353137	distribution cut-outs)	12	2 609	98 627	1 799	3 673	51 287	330 498	151 374	482 392	r24 152
	volts or less	12	4 776	193 810	3 335	5 548	108 695	923 428	438 954	1 369 874	r23 050
3353139	Duct, including plug-in units and accessories, 1000 volts or less	4	794	33 204	590	1 038	22 284	75 268	58 115	133 012	2 901
335313A	Switchgear, except ducts and relays	95	15 376	608 621	10 471	22 311	337 503	1 383 625	1 153 201	2 558 127	r86 556

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
335313	Switchgear and switchboard apparatus manufacturing	N N	X	X	7 398 285 7 353 591
3353131	Power circuit breakers, all voltages	N N	X	X	696 789 532 302
33531311	Power circuit breakers, all voltages	N N	X	X X X X	696 789 532 302
3353131100	Power circuit breakers, all voltages ¹	46 46	X X	X X	696 789 532 302
3353133	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less	N N	×	×	2 063 699 2 331 111
33531331	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less	N N	×	×	2 063 699 2 331 111
3353133100	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less¹	112 139	X	X	2 063 699 2 331 111
3353135	Fuses and fuse equipment less than 2300 volts (except power distribution cut-outs)	N N	X	××	477 372 562 221
33531351	Fuses and fuse equipment less than 2300 volts (except power distribution cut-outs). 2002.	N N	X	X	477 372 562 221
3353135100	Fuses and fuse equipment less than 2300 volts (except power distribution cut-outs) ¹	24 29	×	×	477 372 562 221
3353137	Molded case circuit breakers, 1000 volts or less	N	X	X	1 288 765 1 294 712
33531371	Molded case circuit breakers, 1000 volts or less	N N N	X	X	1 294 712 1 288 765 1 294 712
3353137100	Molded case circuit breakers, 1000 volts or less ¹	26 24	X X X X	X X X X X	1 288 765 1 294 712
3353139	Duct, including plug-in units and accessories, 1000 volts or less	N	X	××	210 402
33531391	Duct, including plug-in units and accessories, 1000 volts or less	N N	X X	×	291 157 210 402
3353139100	Duct, including plug-in units and accessories, 1000 volts or less¹	N 14	X X	X X	291 157 210 402
	1997	20	X)	291 157
335313A	Switchgear, except ducts and relays	N N	X X	X X	2 261 724 1 956 370
335313A1	Switchgear, except ducts and relays	N N	X	X X X X	2 261 724 1 956 370
335313A100	Switchgear, except ducts and relays ¹	111 129	X	X X	2 261 724 1 956 370
335313W	Switchgear and switchboard apparatus manufacturing, nsk, total	N N	X	X	399 534 385 718
335313WY	Switchgear and switchboard apparatus manufacturing, nsk, total	N N	×	×	399 534 385 718
335313WYWW	Switchgear and switchboard apparatus manufacturing, nsk, for nonadministrative-record establishments	N	Х	x	235 554
335313WYWY	Switchgear and switchboard apparatus manufacturing, nsk, for administrative-record establishments	N N	X X	X X	144 856 163 980
	1997	N	X	X	240 862

¹For additional detail, see Current Industrial Report MA335A, Switchgear and Industrial Controls.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3353131	Power circuit breakers, all voltages	
	United States	696 789
	1997. California	532 302 34 198 19 622 29 595
	1997 North Carolina	19 622 29 595
	1997 Ohio	30 087
	Texas	17 837 15 414 N
3353133	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less	
	United States	2 063 699
	1997 California	2 331 111 94 689
	1997 Florida	159 677 41 278 33 378
	1997 Illinois	33 378 222 599 200 028
	1997 Michigan	97 222
	1997. Minnesota	118 027 72 675
	1997 New Jersey	69 399 7 736
	1997 New York	45 466 28 747
	1997. Ohio 2002.	27 055 52 258
	2007 1997 Pennsylvania 2002 2002 2002 2003 2004 2005	121 434 16 322
	1997. South Carolina 2002.	24 367 158 933
	1997	188 447
	Tennessee	66 183 N
	Texas	238 617 205 946
	Washington	11 766 N
	Wisconsin	13 457 9 590
3353135	Fuses and fuse equipment less than 2300 volts (except power distribution cut-outs)	
	United States	477 372 562 221
	***	302 221
3353137	Molded case circuit breakers, 1000 volts or less	
	United States	1 288 765 1 294 712
	New York	5 749 3 793
3353139	Duct, including plug-in units and accessories, 1000 volts or less	
	United States	210 402 291 157
335313A	Switchgear, except ducts and relays	
	United States	2 261 724
	1997. California	1 956 370 115 038
	1997 Illinois 2002.	86 496 428 951
	1997	86 496 428 951 352 672 15 321 7 988
	Louisiana	7 988
	Massachusetts	48 649 N
	Minnesota	37 771 15 318
	Missouri	58 499 N
	New York	47 815 23 751
	North Carolina	138 474 73 570
	Ohio	135 274 120 756
	Pennsylvania	81 918 70 646

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
335313	Switchgear and switchboard apparatus manufacturing		
00900001	Total materials	X	3 096 733
332000A9	Sheet metal products (excluding stampings)	X	2 817 810 86 684
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	× × × × ×	45 648 79 805 85 353
33200087	All other fabricated metal products (excluding forgings, castings, sheet metal products, bolts, nuts, screws, rivets, washers, and screw machine products)	X	161 141 145 119
33210000	Forgings	Ŷ	7 057
33100035	Castings, rough and semifinished	× × × × ×	N 65 244 51 494
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	13 599 41 924
33120016	Steel sheet and strip (including tinplate)	X X X	72 396 N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	3 135 5 597
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	×	49 160
33140001	Nonferrous metal smelter and refinery shapes, including precious metal (excluding castings, forgings, and fabricated metal products)	X X X	65 256 56 304
33100061	Aluminum and aluminum-base alloy shapes and forms (excluding wire, castings, forgings, and		20 626
	fabricated metal products)	X	59 180 50 718
33142123	Copper and copper-base alloy shapes and forms (excluding wire, castings, forgings, and fabricated metal products)	X X	147 013 165 242
33100081	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)		51 394
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	X X X	26 876 23 328 51 527
33531401	Industrial electrical control equipment purchased from other companies	X	254 460 218 429
33531403	Industrial electrical control equipment received from other plants of the same company	X	355 739 407 428
32711301	Porcelain, steatite, and other ceramic electrical products	x x x x x	33 502 47 514
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	×	82 187 71 488
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	, X	43 911 50 326
33531301	Switches (excluding snap, toggle and push, and circuit breakers)	X X X X X	62 364 35 590
001900B5	Resistors, capacitors, transformers, and other electronic-type components (excluding electron tubes and semiconductors)	×	104 788 84 892
33441200	Printed circuit boards (without inserted components) for electronic circuitry	Ŷ	50 855 25 597
001900B9	Semiconductors, microprocessors, memory, ASICs and power semiconductor devices	x x x x x	13 212 11 129
00970099	All other materials and components, parts, containers, and supplies	X	564 679 719 666
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	655 596 390 371

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.